

Arizona Department of Environmental Quality
Quarterly Report
Disinfection Byproducts
TTHM HAA5

[_ / _ / - / _ / _] [_____] [_____]
System ID System Name Report Date

This report is for (check one) Qtr 1[] Qtr 2[] Qtr 3[] Qtr 4[] of Year [_____]

Public water system monitoring frequency is (check one): ____ routine ____ reduced

How many quarterly samples (TTHM/HAA5) are required for the public water system? _____

A How many TTHM samples were collected and analyzed this quarter? _____

B **Report average TTHM result for this quarter's sampling event: _____(mg/L)

C Report current running annual average of quarterly TTHM results: _____mg/L
see guidance document for calculation

D Does TTHM running annual average exceed MCL (0.080 mg/L)? yes ____ no ____

A How many HAA5 samples were collected and analyzed this quarter? _____

B **Report average HAA5 result for this quarter's sampling event: _____(mg/L)

C Report current running annual average of quarterly HAA5 results: _____(mg/L)
see guidance document for calculation

D Does HAA5 running annual average exceed MCL (0.060 mg/L)? yes ____ no ____

** As per R18-4-214.01 (I1), All samples collected and analyzed shall be included in determining compliance, even if that number is greater than the minimum required.

>>>>> Report Information <<<<<

Report prepared by (name) : _____

I hereby claim that all the information in this report is accurate and current:

Official signature: _____

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Arizona Department of Environmental Quality
Quarterly Report Form Guidance
Disinfection Byproducts
TTHM and HAA5

The following applies to any public water system (PWS) that adds a halogenated disinfectant during the treatment process, and is required to monitor quarterly for disinfection byproducts.

GENERAL INFORMATION - Who is required to monitor quarterly?

The Disinfection Byproducts Quarterly Report Form applies to:

- Surface Water systems serving $\geq 10,000$ people - routine and reduced monitoring;
- Surface Water systems serving 500-9,999 people - routine monitoring
- Groundwater systems serving $\geq 10,000$ people - routine monitoring

Compliance for TTHM and HAA5 is based on the running annual average. The running annual average is calculated by adding the average of the current quarter's sample results with the average of the quarterly sample results from the previous three quarters. For example, if the PWS is sampling for the second quarter of 2004, the calculation would be:

$$\frac{2\text{nd Qtr } 2004 \text{ (current)} + 1\text{st Qtr } 2004 + 4\text{th Qtr } 2003 + 3\text{rd Qtr } 2003}{4} = \text{running annual average}$$

1. Surface Water systems serving $\geq 10,000$ people
 - A. Routine Monitoring -four samples/quarter/WTP:
samples are collected in the distribution system;
25% of samples collected from a location that reflects maximum residence time.
 - B. *Reduced Monitoring -one sample/quarter/WTP:
sample is collected in the distribution system;
sample is collected from a location that reflects maximum residence time.
2. Surface Water systems serving 500-9,999 people or Groundwater systems serving $\geq 10,000$ people
 - A. Routine Monitoring -one sample/quarter/WTP:
sample is collected in the distribution system;
sample is collected from a location that reflects maximum residence time.
 - B. *Reduced Monitoring -one sample/year/WTP (use Disinfection Byproducts Annual form):
sample is collected in the distribution system;
sample is collected from a location that reflects maximum residence time.
sample is collected during the month of warmest water temperature

*Reduced Monitoring - The following criteria must be met before a PWS can begin reduced monitoring:

- ADEQ has received and approved a copy of the system's monitoring plan;
- Routine monitoring was performed for at least one year and the running annual average for TTHM and HAA5 ≤ 0.040 mg/L and 0.030 mg/L respectively
- A Surface Water system documents that the source water's annual average TOC level is ≤ 4.0 mg/L prior to any treatment;

Increased Monitoring Levels

Surface water systems serving any size population and Groundwater systems serving $\geq 10,000$ people on reduced monitoring with a TTHM or HAA5 annual average that exceeds 0.060 mg/L or 0.045 mg/L respectively, shall resume TTHM and HAA5 routine quarterly monitoring in the quarter immediately following the monitoring period in which levels were exceeded, and shall report on this form (DWAR 16.1 Disinfection Byproducts Quarterly Report)